

PENTENS T-007

Cement Modifier

Product Data Sheet



Description

PENTENS T-007 is a 100% acrylic cement modifier based on a proven 100% acrylic polymer designed to improve the chemical, corrosion, moisture and salt resistance of cement renders. It is superior compared to most PVA and SBR-based modifiers because of its superior durability and resistance to hydrolysis. It has been specially formulated for use in high alkaline cement environments. Cement mortars based on PENTENS T-007 will adhere to a wide range of materials such as metals, timber, insulation foams as well as new and old concrete.

Uses

Not only used as waterproofing primer, but also as an additive in cement mortars, renders, patching/repair work, GRC panels and waterproof cementitious coatings.

Areas of application include:

- As a primer for water-based waterproofing/flooring works
- Repairs to drinking water and waste water concrete structures
- Repairs and resurfacing of factory floors, driveways
- New and old concrete bonding agent.
- Angle fillets
- Multi-purpose adhesive

Advantages

- Increases durability of concrete and mortars.
- Waterproof.
- Suitable for use in contact with drinking water.
- Great resistance against acids, alkalis, fats & oils.
- Increases abrasion resistance.
- Increases tensile, flexural, impact and compressive strengths.
- Can be applied in thin coats.
- Excellent UV durability.
- Promotes superior adhesion compared to PVA and SBR.

Technical & Physical Data

Form	Emulsion
Appearance	Milky
Density (kg/ltr)	1.01
Solid Content (%)	> 45
Viscosity (Brookfield), (cP)	3000 (approx.)
Shelf Life	1 year when unopened and undamaged
Storage Condition	Store in a dry, cool place
Packaging	20kg /pail 200kg /drum

Mix Recommendation

Primer (0.2kg/m²)

PENTENS T-007:	1 L
Water:	3 L

Slurry Coating (1mm)

Portland cement:	2 kg
Silica Sand (Mesh 50/100):	1 kg
PENTENS T-007:	2 L

Waterproof Render (3~5mm)

Silica sand (Mesh 30/100):	135 kg
Portland cement:	45 kg
PENTENS T-007:	10 L
Water:	20 L

Light Duty Floor Screed (3~5mm)

Silica sand (Mesh 30/60):	135 kg
Portland cement:	45 kg
PENTENS T-007:	10 L
Water:	20 L

Heavy Duty Granolithic Topping (3~5mm)

Granite chips (3mm):	150 kg
Silica sand (Mesh 30/60):	150 kg
Portland cement:	100 kg
PENTENS T-007:	9 L
Water:	72 L

Green Label Test Data

Heavy Metals:

(EPA 3025 / EPA 6010B : ICP)

a. Cadmium (Cd)	Not Detected
b. Lead (Pb)	Not Detected
c. Total Chromium (Cr)	Not Detected
d. Mercury (Hg)	Not Detected

Volatile Organic Compounds
(ISO 11890-2) (g/L) 17.67

Total Halogenated Organic Solvent Not Detected
(ISO 11890-2) (%)

Total Aromatic Organic Solvent Not Detected
(ISO 11890-2) (%)

Epichlorohydrin Not Detected
(ISO 11890-2) (%)

N-Methyl Pyrrolidinone Not Detected
(ISO 11890-2) (%)

Formaldehyde Not Detected
(High Performance Liquid Chromatography) (%)

Alkyl Phenol Ethoxylate Not Detected
(LCMS-MS) (%)

Flash Point >61
(ASTM D3828-07a) (°C)

Safety

Impervious gloves and barrier cream should be used when handling these products. Eye protection should be worn. If contacts with eyes occurs, rinse immediately with plenty of water and seek medical advice if symptoms persist. If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin cleanser followed by plenty of soap and water. Do not use solvent. Ensure adequate ventilation when using these products.



Instruction for Use

Surface Preparation

1. All surfaces must be clean, free from grease, oil and laitance. Remove all dirt and contaminants which might affect adhesion.
2. Substrate should be primed with a 1:3 mixture of PENTENS T-007 and water.
3. Brush on to the surface at approximate rate of 0.2kg/m².
4. Allow it to become tacky before applying the topping.
5. For porous surfaces, prime with a slurry coat. (Refer to mix recommendation)

Application

Apply on concrete and mortar surfaces as per normal practices.

Cleaning

Tools and equipment can be easily cleaned with water immediately after use.



PENTENS



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